**IT Applications Unit 3, AOS 2, Organisations and Data Management**

**Developing a RDMS, p 113-119**

**In creating the database the following is carried out:**

Creating the tables and relationships

Setting up the queries

Input forms

Creating macros

**Testing the solution, p 115**

1. Why is testing carried out?

Testing is carried out to determine whether or not the data is correct.

1. Distinguish between informal and formal testing.

Informal testing occurs during the development phase. As software developers create a solution, they are constantly testing to see if the solution behaves according to expectation

Formal testing involves testing the overall solution after it has been completed to see if it solves the problem.

1. Formal testing:
   1. Bench Test
      1. What does a bench test entail?

A bench test forms part of the formal testing process in which sample data, which is would have been developed during the design stage, is used to determine how the solution behaves with range of data.

* 1. Describe User acceptance testing.

User acceptance testing is when the user of the database are asked to follow a series of steps to complete a task or to interpret the information contained in the solution, and provide their feedback to the developers.

1. Testing validation
   1. Testing should test the boundaries of the validation rule. What does this mean?

The testing should occur in the area and outside the area to insure correct validation.

1. Testing the query

Queries need to be tested to ensure that they work correctly. Once you have created a set of test data, manually check the data to identify the records that meet the criteria specified in the query.

1. Testing formulas

It is a matter of choosing appropriate testing data for which it is easy to determine if the final result is accurate or not.

1. During which stage of the PSM does testing take place?

Development stage

1. Why is testing performed during this stage?

To ensure correct data